WE CLAIM:

1. A surgical drain comprising:

an elongated conduit configured to be implanted in and to drain fluid from a body cavity, the elongated conduit including a first surface located on an outer side of the elongated conduit;

a drain portion configured to rest against a substantial length of tissue within the body cavity;

a plurality of drain holes spaced along substantially the entire length of the drain portion; and

a first sensing system configured to sense a physiological property of tissue proximate to the first surface, the first sensing system including a component that is affixed to the conduit.

- 2. The surgical drain of claim 1, wherein the component is embedded in the conduit.
 - 3. The surgical drain of claim 1, wherein the component includes a sensor.
- 4. The surgical drain of claim 1, wherein the component includes an optical fiber.
- 5. The surgical drain of claim 1, wherein the physiological property sensed is selected from the group comprising: temperature, oxygenation, perfusion, pH, NADH levels, biochemical composition, drug concentration, turgidity or pressure.
- 6. The surgical drain of claim 1, wherein the first sensing system detects the level of oxygenation of the tissue.
- 7. The surgical drain of claim 1, wherein the sensing system detects the hemoglobin content in the tissue.
- 8. The surgical drain of claim 1, further including a transmitting element configured to deliver energy to the tissue proximate to the first surface.

- 9. The surgical drain of claim 1, comprising a second sensing system configured to detect a physiological property in tissue proximate to the conduit that is different from the physiological property sensed by the first sensing system.
- 10. The surgical drain of claim 1, wherein the first sensing system is embedded within the conduit behind material that is optically transparent.
- 11. The surgical drain of claim 1, further including a display configured to depict data corresponding to the physiological property sensed by the first sensing system.
- 12. The surgical drain of claim 1, wherein the conduit includes a second surface located on an outer side of the conduit and, further including a second sensing system configured to sense the same physiological property of tissue proximate to the second surface.
- 13. The surgical drain of claim 1, further including a processing system in communication with the first and second sensing system configured compares a difference between the physiological property sensed by the first and second sensing systems.
 - 14. A surgical drain system comprising:

an elongated conduit configured to be implanted in and to drain fluid from a body cavity, the elongated conduit including a first surface located on an outer side of the elongated conduit and a second surface located on an outer side of the elongated conduit;

a first sensing system configured to sense a physiological property of tissue proximate to the first outer surface;

a second sensing system configured to sense the same physiological property of tissue proximate to the second outer surface; and

a processing system in communication with the first and second sensing system that compares a difference between the physiological property sensed by the first and second sensing systems.

15. A method of utilizing a surgical drain to monitor the condition of a tissue in a body cavity, comprising:

implanting a surgical drain within a body cavity in proximity to a tissue to be monitored, wherein the surgical drain includes a first sensing system configured to sense a physiological property of the tissue;

receiving information from the first sensing system regarding a physiological property of the tissue;

monitoring the information received from the first sensing system to evaluate the condition of the tissue over time.

- 16. The method of claim 15, wherein the tissue condition monitored is selected from the group comprising: perfusion, oxygenation, temperature, pH, NADH level, drug concentration, turgidity and pressure.
- 17. The method of claim 15, comprising transmitting energy to a tissue, and receiving energy from a tissue with the first sensing system.
- 18. The method of claim 15, comprising transmitting energy through a tissue, and receiving energy from a tissue with the first sensing system.
- 19. The method of claim 15, further including processing the information received from the first sensing system.
- 20. The method of claim 15, further including displaying information received from the first sensing system.
- 21. The method of claim 15, comprising detecting a lack of receipt of information from the first sensing system.
- 22. The method of claim 15, comprising detecting a lack of contact between a sensor of a sensing system and the tissue.
- 23. The method of claim 15, comprising inflating an inflatable chamber associated with the surgical drain to decrease distance between the tissue and the surgical drain.

- 24. The method of claim 15, comprising applying suction to a lumen within the surgical drain to decrease distance between the tissue and the surgical drain.
- 25. The method of claim 15, wherein implanting the surgical drain comprises anchoring the surgical drain to a tissue within the body cavity.
- 26. The method of claim 15, further comprising removing the surgical drain when monitoring is not desired.

27. A surgical drain comprising:

a conduit that is bifurcated into at least two elongated conduits to be implanted in and to drain fluid from a body cavity,

the first elongated conduit including a first surface located on an outer side of the conduit and a second surface located on an outer side of the conduit that is substantially opposite of the first surface;

the second elongated conduit including a third surface located on an outer side of the conduit and a fourth surface located on an outer side of the conduit that is substantially opposite of the first surface;

a first sensing system configured to sense a physiological property of tissue proximate to the first surface; and

a second sensing system configured to sense a physiological property of tissue proximate to the second surface; and

a third sensing system configured to sense a physiological property of tissue proximate to the third surface; and

a fourth sensing system configured to sense a physiological property of tissue proximate to the fourth surface.

28. A surgical drain comprising:

an elongated conduit configured to be implanted in and to drain fluid from a body cavity;

a first transmitting system configured to deliver spectral energy to tissue proximate to the conduit; and

a first sensing system configured to detect spectral energy from the tissue proximate to the conduit.

- 29. The surgical drain of claim 28, further including a second sensing system configured to sense a physiological property from the tissue proximate to the conduit.
- 30. The surgical drain of claim 29, wherein the physiological property is selected from the group comprising: oxygenation, perfusion, temperature, pH, NADH levels, biochemical composition, drug concentration, turgidity or pressure.
- 31. The surgical drain of claim 28, wherein the conduit includes a drain portion configured to rest against a substantial length of tissue within the body cavity and a plurality of drain holes spaced along substantially the entire length of the drain portion.
- 32. The surgical drain of claim 28, wherein the transmitting element and a portion of the first sensing system are embedded within the conduit behind optically transparent material.
- 33. The surgical drain of claim 28, further including a display configured to depict data corresponding to the spectral energy detected by the first sensing system.
- 34. The surgical drain of claim 33, wherein the display is configured to display a color corresponding to the spectral energy detected.
- 35. The surgical drain of claim 33, wherein the display is configured to display a numerical value corresponding to the spectral energy.
 - 36. The surgical drain of claim 28, further including:

a second transmitting system configured to deliver spectral energy to a different tissue proximate to the conduit; and

a second sensing system configured to detect spectral energy from the different tissue proximate to the conduit.

- 37. The surgical drain of claim 36, further including a processing system in communication with the first and second sensing systems that compares a difference between the spectral energy sensed by the first and second sensing systems.
 - 38. The surgical drain of claim 28, further including:

a second transmitting system configured to deliver spectral energy to a different location of the same tissue than the first transmitting system; and

a second sensing system configured to detect spectral energy from the different location of the same tissue.

- 39. The surgical drain of claim 38, further including a processing system in communication with the first and second sensing systems that compares a difference between the spectral energy sensed by the first and second sensing systems.
- 40. The surgical drain of claim 28, wherein the first sensing system includes a component that is affixed to the conduit.
- 41. The surgical drain of claim 28, wherein the component is embedded in the conduit.
- 42. The surgical drain of claim 28, wherein the component includes a sensor.
- 43. The surgical drain of claim 28, wherein the component includes an optical fiber.

44. A system comprising:

an elongated conduit configured to be implanted in and to drain fluid from a body cavity, the elongated conduit including a first outer surface and a second surface;

a first sensing system configured to detect spectral energy from tissue proximate to the first outer surface;

a processing system in communication with the first sensing system configured to determine a color value based on the spectral energy; and

a display configured to depict a color representative of tissue proximate to the first outer surface.

45. The system of claim 44, further comprising:

a second sensing system configured to detect spectral energy from tissue proximate to the second outer surface;

a processing system in communication with the second sensing system configured to determine a color value based on the spectral energy; and

a display configured to depict a color representative of the tissue proximate to the second outer surface.

- 46. The system of claim 45, wherein the processing system is configured to compare a difference between the spectral energy detected by the first sensing system and the second sensing system.
- 47. The system of claim 44, further including third sensing system configured to sense a physiological parameter different than the first sensing system.
- 48. The system of claim 47, wherein the physiological property is selected from the group comprising: temperature, pH, NADH levels, biochemical composition, drug concentration, turgidity or pressure.
- 49. The system of claim 44, further comprising a transmitting element configured to deliver energy to the tissue proximate to the first surface.
- 50. The system of claim 44, wherein at least portions of the first sensing system and transmitting element are embedded within the conduit behind optically transparent material.
- 51. The surgical drain of claim 44, wherein the conduit includes a drain portion configured to rest against a substantial length of tissue within the body cavity and comprising a plurality of drain holes spaced along substantially the entire length of the drain portion.
- 52. The surgical drain of claim 44, wherein the first sensing system includes a component that is affixed to the conduit.

- 53. The surgical drain of claim 44, wherein the component is embedded in the conduit.
- 54. The surgical drain of claim 44, wherein the component includes a sensor.
- 55. The surgical drain of claim 44, wherein the component includes an optical fiber.

56. A system comprising:

an elongated conduit configured to be implanted in and to drain fluid from a body cavity, the elongated conduit including a first outer surface and a second outer surface:

a first sensing system configured to configured to detect spectral energy from tissue proximate to the first outer surface;

a processing system in communication with the first sensing system configured to determine a numerical color value; and

a display configured to depict a numerical color value representative of tissue proximate to the first outer surface.

57. The system of claim 56, further comprising:

a second sensing system configured to detect spectral energy from tissue proximate to the second outer surface;

a processing system in communication with the second sensing system configured to determine a numerical color value based on the spectral energy; and

a display configured to depict a numerical color value representative of the tissue proximate to the second outer surface.

58. The system of claim 56, wherein the processing system is configured to compare a difference between the spectral energy detected by the first sensing system and the second sensing system.

- 59. The system of claim 56, further including third sensing system configured to sense a physiological parameter different than the first sensing system.
- 60. The system of claim 59, wherein the physiological property is selected from the group comprising: temperature, pH, NADH levels, biochemical composition, drug concentration, turgidity or pressure.
- 61. The system of claim 56, further comprising a transmitting element configured to deliver energy to the tissue proximate to the first surface.
- 62. The system of claim 56, wherein at least portions of the first sensing system and transmitting element are embedded within the conduit behind optically transparent material.
- 63. The surgical drain of claim 56, wherein the conduit includes a drain portion configured to rest against a substantial length of tissue within the body cavity and comprising a plurality of drain holes spaced along substantially the entire length of the drain portion.
- 64. The surgical drain of claim 56, wherein the first sensing system includes a component that is affixed to the conduit.
- 65. The surgical drain of claim 56, wherein the component is embedded in the conduit.
- 66. The surgical drain of claim 56, wherein the component includes a sensor.
- 67. The surgical drain of claim 56, wherein the component includes an optical fiber.